

Application No. 10/065,217  
Docket No. 17MY-7239  
Amendment dated September 26, 2006  
Reply to Office Action of June 26, 2006

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

### **Listing of Claims:**

Claim 1 (Currently amended): A castable weldable nickel-base alloy consisting essentially of, by weight, 18% to 20% cobalt, 22.2% to 22.8% chromium, 1.8% to 2.2% tungsten, 2.21% ~~1.6%~~ to 2.3% aluminum, 1.6% to 2.4% titanium, the sum of aluminum and titanium being 2.8% to 2.97%, ~~3.89%~~, 0.7% to 0.9% columbium, 0.9% to 1.9% ~~1.61% to 1.63%~~ tantalum, 0.003% to 0.009% boron, 0.002% to 0.02% zirconium, 0.05% to 0.10% carbon, with the balance essentially nickel and incidental impurities.

Claim 2 (Currently amended): The alloy according to claim 1, wherein the sum of aluminum and titanium is ~~about~~ 2.97%.

Claim 3 (Currently amended): The alloy according to claim 1, wherein the aluminum content is ~~about~~ 2.21%.

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Claim 4 (Original): The alloy according to claim 1, wherein the alloy contains about 26 to about 38 volume percent of a gamma-prime precipitate phase.

Claim 5 (Original): The alloy according to claim 1, wherein the alloy is in the form of a cast nozzle of a gas turbine engine.

Claim 6 (Original): The alloy according to claim 1, wherein the nozzle is installed in a second turbine stage of the gas turbine engine.

Claim 7 (Currently amended): The alloy according to claim 2, wherein the alloy is in the form of a cast nozzle of a gas turbine engine. ~~the sum of aluminum and titanium is about 3.54%.~~

Claim 8 (Currently amended): The alloy according to claim 3, ~~claim 7,~~ wherein the alloy is in the form of a cast nozzle of a gas turbine engine.

Claim 9 (Currently amended): The alloy according to claim 8, ~~claim 7,~~ wherein the nozzle is installed in a second turbine stage of the gas turbine engine.

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Claim 10 (Currently amended): A nozzle installed in a second turbine stage of the gas turbine engine and cast from a nickel-base alloy consisting of, approximately by weight, 18.76% to 18.84% cobalt, 22.59% to 22.90% chromium, 1.99% tungsten, 2.21% to 2.3% ~~1.24% to 2.26%~~ aluminum, 1.68% to 2.30% titanium, the sum of aluminum and titanium being 2.8% to 2.97%, ~~2.97% to 3.89%~~, 0.78% columbium, 1.61% to 1.63% tantalum, 0.003% to 0.009% boron, 0.002% to 0.02% zirconium, 0.05% to 0.10% carbon, with the balance essentially nickel and incidental impurities.

Claim 11 (Currently amended): A castable weldable nickel-base alloy consisting essentially of, by weight, 5% to 8% cobalt, 22.2% to 22.8% chromium, 1.8% to 2.2% tungsten, 1.2% to 2.3% ~~1.44% to 2.24%~~ aluminum, 1.6% to 2.4% titanium, the sum of aluminum and titanium being 2.8% to 3.05%, ~~3.05% to 3.84%~~, 0.7% to 0.9% columbium, 0.9% to 1.9% tantalum, 0.003% to 0.009% boron, 0.002% to 0.02% zirconium, 0.05% to 0.10% carbon, with the balance essentially nickel and incidental impurities.

Claim 12 (Currently amended): The alloy according to claim 11, wherein the sum of aluminum and titanium is ~~about~~ 3.05%.

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Claim 13 (Currently amended): The alloy according to claim 11,  
wherein the aluminum content is ~~about~~ 2.24% to 2.3%.

Claim 14 (Original): The alloy according to claim 11, wherein the  
alloy contains about 23 to about 36 volume percent of a gamma-prime  
precipitate phase.

Claim 15 (Original): The alloy according to claim 11, wherein the  
alloy is in the form of a cast nozzle of a gas turbine engine.

Claim 16 (Original): The alloy according to claim 11, wherein the  
nozzle is installed in a third turbine stage of the gas turbine engine.

Claim 17 (Currently amended): The alloy according to claim 12,  
wherein the alloy is in the form of a cast nozzle of a gas turbine engine. ~~claim~~  
~~11, wherein the sum of aluminum and titanium is about 3.62%.~~

Claim 18 (Previously presented): The alloy according to claim 13,  
wherein the alloy is in the form of a cast nozzle of a gas turbine engine.

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Claim 19 (Currently amended): The alloy according to claim 18,  
~~claim 13~~, wherein the nozzle is installed in a third turbine stage of the gas  
turbine engine.

Claim 20 (Currently amended): A nozzle installed in a second turbine  
stage of the gas turbine engine and cast from a nickel-base alloy consisting of,  
approximately by weight, 6.47% to 6.61% cobalt, 22.33% to 22.67% chromium,  
1.96% to 1.97% tungsten, 1.44% to 2.24% ~~1.24% to 1.44%~~ aluminum, 1.60%  
to 2.18% titanium, the sum of aluminum and titanium being 2.8% to 3.05%,  
~~3.05% to 3.84%~~, 0.78% columbium, 1.56% to 1.57% tantalum, 0.003% to  
0.009% boron, 0.002% to 0.02% zirconium, 0.05% to 0.10% carbon, with the  
balance essentially nickel and incidental impurities.

Claims 21-22 (Canceled)

Claim 23 (Currently amended): The nozzle according to claim 10,  
wherein the sum of aluminum and titanium is ~~about~~ 2.97%.

Claim 24 (Currently amended): The nozzle according to claim 10,  
wherein the aluminum content is ~~about~~ 2.21%.

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Claims 25-26 (Canceled)

Claim 27 (Previously presented): The nozzle according to claim 10, wherein the alloy contains about 26 to about 38 volume percent of a gamma-prime precipitate phase.

Claim 28 (Canceled)

Claim 29 (Currently amended): The nozzle according to claim 20, wherein the sum of aluminum and titanium is ~~about~~ 3.05%.

Claim 30 (Currently amended): The nozzle according to claim 20, wherein the aluminum content is ~~about~~ 2.24%.

Claim 31 (Currently amended): The nozzle according to claim 20, wherein the aluminum content is about 1.85%. ~~sum of aluminum and titanium is about 3.62%.~~

Claim 32 (Previously presented): The nozzle according to claim 20, wherein the alloy contains about 26 to about 38 volume percent of a gamma-prime precipitate phase.